Add a 3G cell modem communication module to your BaseStation irrigation controller to enable reliable remote connectivity. The cell modem sends and receives data over a wireless carrier’s 3G network. Baseline’s 3G cell modems have the following technical specifications.

**Supported Frequency Bands**
- GSM/GPRS/EDGE: 850/900/1800/1900 MHz
- UMTS/HSPA+ (WCDMA/FDD): 800/850/900/1900/2100 MHz
- CDMA2000 (BC0, BC1, BC10 subclass 2+3): 800/1900 MHz

**Maximum Connectivity Speed**
- HSPA+: 14.4 Mbps (Cat 10) down, 5.76 Mbps (Cat 6) up

**Rx Diversity**
Simultaneous equalization and Rx diversity on all bands, except GSM/GPRS/EDGE

**Power & Communication**
Power is supplied to the cell modem by the rear 5-pin terminal block on the right end of the controller board on all BaseStation 3200 or BaseStation 1000 irrigation controllers.
The controller and cell modem communicate over an Ethernet cable.
The cell modem is configured through the irrigation controller’s interface.
- DC Power In: 9-33 V DC
- Current Consumption: 341mA (measured at 12V DC)

**Network**
Cell modems operate on a wireless carrier’s network and require a yearly data fee. Baseline provides the SIM card from the wireless carrier and a 1-year subscription to a data plan with the wireless carrier.

**Environment**
- Operating: -22º to +158º F (-30º to +70º C)
- Storage: -40º to +185º F (-40º to +85º C)
- Humidity: 5% to 95% RH noncondensing

**General Information**
- Dimensions: 4.5" W x 4.1" L x 1.8" D (11.5 cm W x 10.5 cm L x 4.5 cm D)
- RF Antenna Connector: WWAN SMA female
- Ethernet (IEEE 802.3): 10/100Mb/s RJ 45 connector
- SIM: USIM/SIM connection, Class B and Class C
- Status Indicators: Seven 3-color LEDs showing system status and signal strength
- Standards Compliance: RoHS, REACH
- Certification: FCC, PTCRB
Security

The cell modem uses one of the following ciphers for encryption:

- 128-EEA1 SNOW 3G based algorithm
- 128-EEA2 AES based algorithm

If the cell modem is on Baseline’s private network, there is additional encryption (AES 128-GCM) between the wireless carrier’s network and the Baseline server.

Compatible BaseStation Firmware

The following firmware versions have integrated support for 3G cell modem communication:

- BaseStation 1000: Version 1.11 and higher
- BaseStation 3200: Version 12.17 and higher

Compatible BaseStation Hardware

- BaseStation 1000: All controllers in X cabinets and pedestal (P) enclosures
- BaseStation 3200: Controllers in X cabinets and pedestal (P) enclosures shipped after April 16, 2014